

What is claimed is:

1. A communication network system comprising at least a host device, a first communication device, and a second communication device;

the first and second communication devices being interconnected by
5 obtaining primary connection information from the host device;

if the first communication device prefers a direct call from the second communication device from the next time on:

the first communication device sending to the second communication device, primary connection information for connecting to the
10 first communication device, and identity information for identifying the operator of the first communication device or the first communication device itself, excluding the primary connection information; and

the second communication device
storing and retaining the primary connection information and
15 the identity information received from the first communication device;

at the time of connection from the next time on, displaying the identity information to the operator but not displaying the primary connection information; and

calling up the first communication device according to the
20 primary connection information corresponding to the identity information selected.

2. A method of network communication through a network communication system comprising at least a host device, a first
25 communication device, and a second communication device, comprising:

the first and second communication devices being interconnected by obtaining primary connection information from the host device;

if the first communication device prefers a direct call from the second communication device from the next time on:

30 a step of the first communication device sending to the second communication device, primary connection information for connecting to the

first communication device, and identity information for identifying the operator of the first communication device or the first communication device itself, excluding the primary connection information;

5 a step of the second communication device storing and retaining the primary connection information and the identity information received from the first communication device

a step of the second communication device displaying the identity information to the operator but not displaying the primary connection information at the time of connection from the next time on;

10 a step of the second communication device calling up the first communication device according to the primary connection information corresponding to the identity information selected.

3. A communication device comprising;

15 receiving means for receiving primary connection information for making connection to other communication devices and identity information for identifying the operator of the communication device or the communication device excluding the primary connection information;

20 storing and retaining means for storing and retaining the received primary connection information and the received identity information;

display means for displaying the identity information and not displaying the primary connection information to the operator from the next occasion of connection on;

selecting means for selecting specific identity information; and

25 connecting means for making connection to a communication device corresponding to the identity information and the primary connection information according to the primary connection information corresponding to the selected identity information.

30 4. A communication device of claim 3, wherein the primary connection information and identity information received from other communication

devices can be transmitted to another communication device other than the communication device that corresponds to the primary connection information.

5 5. A communication device of claim 4, wherein the communication device, if the primary connection information and identity information received from another communication device do not correspond to the communication device,

10 connects to a communication device corresponding to the received primary connection information and,

 only after obtaining an authentication from the connected communication device to the effect that the primary connection information and identity information may be transmitted from the communication device to other communication devices, can transmit the received primary
15 connection information and identity information to communication devices other than the communication device.

20 6. A communication device of claim 5, wherein the authentication is obtained when the communication device is directly connected to another communication device that corresponds to the primary connection information.

25 7. A communication device of claim 5, wherein, when the authentication is obtained, a message of "an authentication is obtained" is displayed in a visible form.

30 8. A communication device of claim 6, wherein, when the authentication is obtained, a message of "an authentication is obtained" is displayed in a visible form.

 9. A communication device of claim 3, wherein, when selecting a

specific piece of information from the identity information the communication device owns itself, the communication device displays from whom the selected identity information has been obtained.

5 10. A communication device of claim 3, wherein the communication device displays the correlation information in a visible form showing the correlation of itself with other communication device to which it has made direct connection.

10 11. A communication device of claim 10, wherein the communication device receives, from another communication device directly connected to the communication device, correlation information the another communication device has; arranges the received correlation information together with the correlation information the communication device has; produces new
15 correlation information; and displays the produced correlation information in a visible form.

20 12. A communication device of claim 11, wherein the communication device, when any piece of correlation information is selected from the correlation information, displays only the selected piece of correlation information in a visible form.

25 13. A communication device of claim 10, wherein the communication device, when any piece of correlation information is selected, displays the selected piece of correlation information discriminately from the correlation information other than that selected.

30 14. A communication device comprising:
primary connection information generating means for producing
primary connection information for making connection to the communication device;

identity information generating means for producing identity information for identifying the operator or the communication device excluding the primary connection information; and

transmitting means for transmitting the primary connection
5 information and the identity information to other communication devices.

15. A communication device of claim 14, wherein the communication device displays the correlation information in a visible form showing the correlation of itself with other communication device to which the
10 communication device has made direct connection.

16. A communication device of claim 15, wherein the communication device: receives, from another communication device directly connected to the communication device, correlation information the connected
15 communication device has; arranges together the correlation information itself has and the received correlation information, produces new correlation information; and displays the new correlation information in a visible form.

17. A communication device of claim 16, wherein the communication
20 device, if any piece of correlation information is selected from the correlation information, displays only the selected piece of correlation information in a visible form.

18. A communication device of claim 15, wherein the communication
25 device, if any piece of correlation information is selected, displays the selected correlation information discriminately from the correlation information other than that selected.

19. A network communication system comprising at least a host device,
30 a first communication device, and a second communication device;
the first communication device transmitting to the host device primary

connection information for making connection to the first communication device, and major identity information for identifying the operator of the first communication device or the first communication device itself, excluding the primary information;

5 the host device storing and retaining the primary connection information and the major identity information received from the first communication device; preventing the primary connection information from being disclosed to the users of the communication devices trying to gain access to the host device; disclosing the major identity information to the
10 respective users; and transmitting to the second communication device the primary connection information that corresponds to the major identity information selected by the second communication device, and

the second communication device making connection to the first communication device according to the primary connection information
15 received.

20. A method of network communication through a network communication system having at least a host device, a first communication device, and a second communication device, comprising:

20 a step of the first communication device transmitting to the host device primary connection information for making connection to the first communication device and major identity information for identifying the operator of the first communication device or the communication device excluding the primary connection information;

25 a step of the host device storing and retaining the primary connection information and the major identity information received from the first communication device;

a step of the host device not disclosing the primary connection information to the users of communication devices trying to gain access to
30 the host device;

a step of the host device disclosing the major identity information to the

respective users;

a step of the host device transmitting to the second communication device the primary connection information corresponding to the major identity information selected by the second communication device; and

5 a step of the second communication device making connection to the first communication device according to the primary connection information received.

21. A communication device comprising;

10 primary connection information generating means for generating primary connection information for making connection to the communication devices;

major identity information generating means for producing major identity information for identifying the operator or the communication device
15 excluding the primary connection information; and

transmitting means for transmitting the primary connection information and the major identity information to a host device.

22. A recording medium on which a program for a communication
20 device to communicate with other communication devices through a computer is recorded, wherein

the program causes the computer:

to receive primary connection information for making connection to other communication devices and identity information for identifying the
25 operator of the communication device or the communication device excluding the primary connection information;

to store and retain the primary connection information and the identity information caused to be received;

to display the identity information and not to display the primary
30 connection information to the operator from the next occasion of connection on; and

to connect to a communication device that corresponds to the identity information and the primary connection information according to the primary connection information that corresponds to the identity information selected.

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23. A recording medium on which a program for a communication device to communicate with other communication devices through a computer is recorded, wherein

the program causes the computer:

10 to produce primary connection information for making connection to the communication device;

to produce identity information for identifying the operator or the communication device excluding the primary connection information; and

15 to transmit the primary connection information and the identity information to other communication device.

24. A recording medium on which a program for a communication device to communicate with other communication devices through a computer is recorded, wherein

20 the program causes the computer:

to produce primary connection information for making connection to the communication device;

to produce identity information for identifying the operator or the communication device excluding the primary connection information; and

25 to transmit the primary connection information and the identity information to a host device.

25. A communication device comprising identity information retaining means having primary connection information for making connection to
30 other communication devices and identity information for identifying the operators of other communication devices or the communication devices

excluding the primary connection information, identity information display means for displaying the identity information, wherein

the identity information display means includes an identity information display region for displaying whole or part of the identity information, and a detailed information display region for displaying whole or part of the identity information noted; and the detailed information display region has an authentication information display region for displaying whether or not an authentication has been obtained from other communication device to the effect that the primary connection information and the identity information may be transmitted from the communication device in question to other communication devices.

26. A communication device of claim 25, wherein the detailed information display region further has a source party display region for displaying the source party information indicating from which communication device the identity information currently noted has been obtained for the correlation information indicating the correlation of the communication device in question with another communication device to which the communication device in question has made a direct connection.

27. A communication device comprising correlation information retaining means having correlation information indicating the correlation of the communication device itself and another communication device, and correlation information display means for displaying the correlation information; and

the correlation information display means displaying, out of the correlation information, pieces of information having specific information discriminately from those having no specific information.

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